



# XT1 AM FM RDS / RBDS Tuner

**User Manual** 

www.xantech.com

Thank you for purchasing the XT1 Tuner. We take great pride in the design and manufacturing quality products, and are confident that your new XT1 will provide you with many years of enjoyable and trouble-free service. Should you ever have any need to call upon our services, please feel free to contact us at the address shown at the end of this manual or contact the dealer or distributor from whom you purchased this product. Full details of the warranty coverage provided can be found at the end of this booklet.

#### Important Safety Instructions

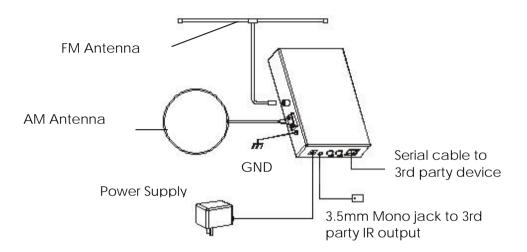
- 1. Important! Please read all the safety and operating instructions shown in this manual before operating this equipment.
- 2. Heed all warnings and follow all operating instructions.
- 3. Warning: To assure safety during a lightening storm, the XT1 must be grounded, refer to the diagrams on page 4. Also, if the unit is left unattended and unused for long periods of time, it is recommended that you unplug the unit from the wall AC outlet.
- 4. Locate the product away from heat sources such as stoves, heat sources, radiators or other appliances including other amplifiers that produce heat.
- 5. Mount the equipment in a wall or cabinet only as described in this owner's manual.
- 6. Do not use this equipment near water, in damp locations, or outdoors.

#### Each XT1 package contains

- XT1 AM/FM Tuner with RDS/RBDS
- IR cable: 3.5mm mono socket 3.5mm stereo jack
- Serial cable: DB9 female RJ45 male
- Audio Cable: L/R RCA male to 3.5mm stereo female jack
- Audio Cable: L/R RCA male to L/R RCA male
- Power supply 12VDC 300mA
- FM Dipole Antenna
- AM loop antenna
- User Manual

#### Optional (sold separately)

- 1U Rack mount kit for up to 3 tuners: Xantech part number 1U3XT1RM



#### RS232 control

The XT1 can be controlled via RS232. To connect a serial control device, the supplied serial cable should be used. This cable establishes the RS232 communication to and from the tuner.

The pin layout and RS232 protocol can be found in the back of this manual.

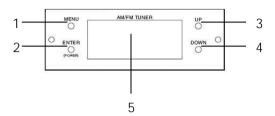
#### IR Receiver input

To control the XT1 via IR, an IR extender system needs to be used. There is no IR receiver inside the LCD display. To connect an industry standard IR extender system, use the supplied IR cable and plug the stereo jack of this cable into the IR sensor input of the XT1, and use the mono socket to attach the IR extender output to. Tip = IR-SIGNAL, Sleeve = GND.

#### Antenna's

Position and secure both antennas individually until the clearest sound is heard.

#### Front Panel Controls



### (1) MENU

Pressing this button allows you access to the following functions:

- AM/FM band selection
- Auto/Manual tuning selection
- Scan the preset stations
- Memorize a station
- Set the IR Code.

## (2) ENTER (Power)

When plugging in the power transformer the first time, the tuner will automatically turn on. Pressing this button for **4 seconds** will turn the unit ON from standby (sleep mode), or put the unit into standby from its ON state.

#### (3) UP

Allows for tuning up to higher frequency stations.

#### (4) DOWN

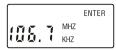
Allows for tuning down to lower frequency stations.

#### (5) LCD DISPLAY

The display will turn off after approximately 3 to 4 minutes. To turn display ON, simply press the ENTER button.

#### **Tuner Operation**

#### MAKE AM/FM BAND SELECTION



- Press and release the MENU button until either the ENTER and MHz characters flash, or the ENTER and kHz characters flash.
- 2. Press the ENTER button until either MHz or kHz stops flashing.
- Press either UP or DOWN button to obtain MHz or kHz. (note MHz is the FM band and kHz is the AM band)
- 4. Either wait until the ENTER stops flashing or depress the ENTER button.

#### EZ Steps:

- 1. Press MFNU once
- 2 Press FNTFR
- 3. Press UP
- 4. Press ENTER (or wait 3 seconds)

#### SELECT AUTO OR MANUAL TUNING



- 1. Press and release MENU button until AUTO and ENTER flash.
- 2. Press ENTER button to stop flashing.
- 3. Press UP or DOWN button to change to a new tuning mode.
- 4. Press ENTER to switch to the new mode.

### EZ Steps:

- 1. Press MENU twice
- 2. Press ENTER
- 3. Press UP
- 4. Press ENTER (or wait 3 seconds)

#### LISTEN TO PRESET STATIONS OR SCANS



- 1. Press and release MENU until P-SCAN and ENTER characters flash.
- 2. Press FNTFR.
- 3. Preset stations or scans will continue to advance until the ENTER button is pressed.

#### EZ Steps:

- 1. Press MENU three times
- 2. Press FNTFR
- 3. When desired station is playing, press ENTER

**NOTE**. Although the display only shows frequency steps of 0.1MHz, the actual tuning is done with steps of 0.05Mhz. (in EU mode only)

#### TO PRESET MEMORIES



- 1. Select a desired station.
- 2. Press and release MENU button until MEM and ENTER characters flash.
- 3. Press ENTER button.
- 4. Select desired PRESET number by pressing UP or DOWN button.
- 5. Press ENTER button.

# EZ Steps:

- 1. Select desired station
- 2. Press MENU four times
- 3. Press UP or Down
- 4. Press ENTER button

#### RDS/RBDS INFORMATION

RDS/RBDS information is not shown on the XT1 display and is only available through its RS232 connection.

#### **Xantech Limited Warranty**

Xantech Corporation ("Xantech") warrants to the holder of a valid proof of purchase as the first end-user purchaser ("You"), its products to be free from defects in materials and workmanship for the periods specified below from the date of purchase. This limited warranty extends only to You for product purchased and used in the United States of America. For product purchased outside of the United States of America, You must contact the Xantech authorized distributor in your region for warranty services. Product is not intended for end user installation. If within the applicable warranty period above You discover such item was not as warranted above and You promptly notify Xantech in writing, Xantech shall repair or replace the items at its option. Xantech may elect which remedy or combination of remedies to provide in its sole discretion. Xantech may use functionally equivalent reconditioned/refurbished/pre-owned or new products or parts under this limited warranty. This warranty shall not apply (a) to product which shall have been installed by other than an authorized Xantech installer, (b) to installed product which is not installed to Xantech's specifications, (c) to product which shall have been repaired or altered by others than Xantech, (d) to charges for installation or set up or adjustment of customer controls. (e) to product that has suffered normal cosmetic deterioration (f) to product which shall have been subjected to negligence, misuse, abuse, accident, or damage by circumstances beyond Xantech's control, including, but not limited to, lightning, flood, electrical surge, tomado, earthquake, or any other catastrophic events beyond Xantech's control, or (a) to product which shall have been subjected to improper operation, connected equipment failure or malfunction, inadequate packing or shipping damage, maintenance or storage, or to other than normal use of service. The foregoing warranties do not cover reimbursement for labor, transportation, shipping, removal, installation, or other expenses which may be incurred in connection with repair or replacement. All claims for product shipping damage must be processes within 3 days of receipt by You.

A Xantech Return Authorization (RA) must be obtained from Xantech by You, your installer or your distributor for Product covered under this warranty. Covered product must be sent to Xantech together with proof of purchase, RA number, prepaid and insured to Xantech. Freight collect shipments will be refused. Risk of loss or damage in transit is borne by the sender. Xantech's warranty does not cover Products which have been received improperly packaged, altered, or physically damaged. Products will be inspected upon receipt.

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| Xantech products (go to xantech.com/warranty for model numbers) | Warranty Duration |
|---|-------------------|
| IR Receivers and IR emitters                                    | Limited lifetime  |
| Remote Control Switchers  | Limited lifetime  |
| Modules and Connecting Blocks                                   | Limited lifetime  |
| Accessories   | Limited lifetime  |
| Speakers  | Limited lifetime  |
| Volume Controls and Speaker Selectors                           | 5 year limited    |
| MRC, BX, ZPR and Commercial Products                            | 2 year limited    |
| Amplifiers  | 2 year limited    |
| Control Interfaces  | 2 year limited    |
| Hand Held Remote Controls                                       | 1 year limited    |
| SPLCD Product   | 1 year limited    |
| Source Components (includes XT1)                                | 1 year limited    |

#### **Specifications**

FΜ

Frequency Range: 88 to 108 MHz (US) 87.5 to 108 MHz (EU)

Antenna Input Impedance: 75 ohm

Usable Sensitivity @30dB S/N: - 5 dBu (typical)

Signal/Noise ratio - Mono 62 dB A

> - Stereo 55 dB A

0.2 % THD(1kHz) - Mono - Stereo 0.4 %

79 dB

Image Rejection: Frequency Response: 50 to 15k Hz Stereo Separation: 33 dB

Capture Ratio: 2 dB

AM

Frequency Range: 530 to 1700 kHz (US)

525 to 1605 kHz (EU)

Usable sensitivity: 23 dBu IF rejection: 90 dB Selectivity: 100 dB Distortion: 0.5% (typical) Signal/Noise ratio: 50 dB A Frequency Response: 50Hz to 3kHz Power requirement: 12VDC 300 mA

AC voltage for Power supply:

USA/Canada 120V, 60Hz Europe 230V, 50Hz

Dimensions: 6"(153mm) D x 4"(102mm) W x 1-1/4" (32mm) H.

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#### Appendix 1

#### RS232 Protocol

Interface

Baud Rate: 9600 Stop Bit: 1
Data Bits: 8 Parity Bit: none

Transmission: In ASCII codes

**Format** 

<ZoneID><\_><ProductID><\_><TunerID>\_<Command><\_><Parameter1><\_><Parameter2><\_><CR>

<Zone ID> Is number 00 to 99, a "00" selects all zones.

The maximum number is 99.

Zone ID is factory set at "0", can be reassigned to other number below 99.

<Product ID> For the XT1, the factory default setting for product ID is 10

<Tuner ID> Is number 00 to 99, a "00" selects all tuners. Default set to 01

<Command> Is 1 to N, N may be in one or multiple digits as defined in the first column in the

table below

<Parameter1> None, or is 1 to N, N may be in one or multiple digits as defined in the

"Parameter1" column below

<Parameter2> None, or is 1 to N, N may be in one or multiple digits as defined in the

"Parameter2" column below

<\_> The fields are separated by an underscore "\_"

<CR> A character return to terminate the command line

<Zone ID> If multiple XT1 tuners are used in one application, the Zone ID of each tuner shall

be reassigned with a unique number so that each tuner can be controlled individually via the RS232 port. Use command 14 in the following list to program

a new Zone ID.

| XT1                               | Purpose  | Parameter1                        | Purpose of Parameter1                                | Parameter2 |
|-----------------------------------|--|-----------------------------------|--|------------|
| Command                           |  |                                   |  |            |
| 1 Power on/off                    |  | 1                                 | Power off  |            |
|                                   |  | 2                                 | Power on   |            |
|                                   |  | 3                                 | Toggle power on/off                                  |            |
| 2                                 | Band switching   | 1                                 | АМ   |            |
|                                   |  | 2                                 | FM   |            |
|                                   |  | 3                                 | Toggle between AM/FM                                 |            |
| 3 Preset access 1 to N 1 for pres |  | 1 for preset 1, 32 for preset #32 |  |            |
| 4                                 | 4 Direct frequency 87107 Enter the integal part of a FM frequenc |                                   | Enter the integal part of a FM frequency             | 0095       |
|                                   | tuning   | 516                               | Enter the 1st or first two digits of an AM frequency | 0099       |

| 5   |                            | 1   |   |      |
|-----|----------------------------|-----|---|------|
| 5   | Auto Memory                | ı   | start scar nom the current requency and   |      |
|     |                            |     | write each station into preset sequentially   |      |
|     |                            | 2   | Start scan from FM 87.5MHZ to 107.95 then AM 530 to 1690, write each station into preset sequentially.            |      |
| 6   | RS232 Output               | 1   | Outputs feedback one by one (i.e. on demand)  |      |
|     |                            | 2   | Outputs feedback every 0.5 seconds  |      |
|     |                            | 3   | Outputs feedback every 1 seconds  |      |
|     |                            | 4   | Outputs feedback every 2 seconds  |      |
|     |                            | 5   | Outputs feedback every 5 seconds  |      |
| 7   | Preset Scan                | 1   | Scan up preset number to play each preset for 5 sec   |      |
|     |                            | 2   | Scan Down preset number to play each preset for 5 sec   |      |
|     |                            | 3   | Stop the preset scan  |      |
|     |                            | 4   | Move and stop only once at the next preset of higher number   |      |
|     |                            | 5   | Move and stop only once at the next preset of lower number  |      |
| 8   | Write/Erase a              | 1   | Enter a "0" to erase the current preset shown in  |      |
|     | preset                     |     | the display   |      |
|     |                            | 2   | write the frequency into the entered number   | 0132 |
| 9   | Up/Down Tuning             | 1   | Auto tune up frequency  |      |
|     |                            | 2   | Auto tune Down frequency  |      |
|     |                            | 3   | Manual tune up frequency one step   |      |
|     |                            | 4   | Manual tune down frequency one step   |      |
| 10  | Stereo/Mono<br>mode        | 1   | Let Tuner received signal control the mode  |      |
|     |                            | 2   | Force the tuner into Mono mode reception (Stero mode is set each time the auto-tuning is engaged)                 |      |
| 11* | Get frequency              | 1   | Output in ASCII, the band and frequency listening   |      |
|     | Get Preset<br>number       | 2   | Output in ASCII, the preset number that is displaying   |      |
|     | Get Tuning mode            | 3   | Output in ASCII, the current tuning in "auto" or<br>"manual"  |      |
|     | Get Receving<br>mode       | 4   | Output in ASCII, the current receiving mode in "Stereo" or "Mono"   |      |
|     | Get Operating<br>Status    | 5   | Output in ASCII, the Frequency Preset number,<br>Tuning Mode, Receiving Mode, Zone ID, IR ID,<br>and Power status |      |
| 12  | Purge EEPROM               | 111 | Purge the EEPROM and restore it to the default setting  |      |
| 13  | MPU Reset                  | 111 | Reset the MPU to default settings   |      |
| 14  | Reserved for<br>future use |     |   |      |

| 15 | Program XT1 Zone<br>ID | 888 | Program XT1 Zone ID "number"  | 0099 |
|----|------------------------|-----|-------------------------------|------|
|    |                        | 222 | Return XT1 Zone ID            |      |
|    |                        | 666 | Program XT1 Tuner ID "number" |      |
|    |                        | 444 | Return XT1 Tuner ID           | 0099 |

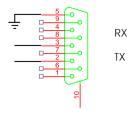
# Examples:

| 01_10_00_1_1   | Instruct Zone 1 XT1 to power off  |
|--|---|
| 01_10_06_1_2   | Instruct Zone 1 Tuner 6 XT1 to power on   |
| 01_10_00_1_3   | Instruct zone 1 XT1 to power on if it is off, or power off if it is on  |
| 12_10_00_3_21  | Zone 12 XT1 to tune into preset #21   |
| 03_10_00_4_107_50  | Zone 3 XT1 to tune to FM 107.50 MHZ   |
| 03_10_00_4_99_55   | Zone 3 XT1 to tune to FM 99.55 MHZ (The 2nd digit after the decimal is  |
|  | 50K/step tuning for Europe)   |
| 03_10_00_2_1   | Switch band to AM reception   |
| 03_10_00_4_05_80   | Zone 3 XT1 to tune to AM 580 KHZ  |
| 03_10_00_4_10_00_30  | Zone 3 XT1 to tune to AM 1030 KHZ   |
|  |   |
| 01_10_14_6_1   | Returns the RDS information of Tuner 14   |
| 01_10_00_6_4   | RDS information is fed to third party device every 2 seconds.   |
|  |   |
| 01_10_00_8_0   | Zone 1 XT1 to empty the preset currently displaying   |
|  |   |
| 01_10_00_8_15  | Zone 1 XT1 to write the displayed frequency into preset 15  |
| 01_10_00_8_15<br>02_10_00_11_1   | When in FM 100.05 MHZ, Zone 2 XT1 outputs FM10005 in ASCII string   |
| 02_10_00_11_1  | When in FM 100.05 MHZ, Zone 2 XT1 outputs FM10005 in ASCII string When in FM 100.05 MHZ, Zone 2 XT1 outputs a complete set of operating   |
|  | When in FM 100.05 MHZ, Zone 2 XT1 outputs FM10005 in ASCII string   |
| 02_10_00_11_1  | When in FM 100.05 MHZ, Zone 2 XT1 outputs FM10005 in ASCII string When in FM 100.05 MHZ, Zone 2 XT1 outputs a complete set of operating data IFM10005IIPRESET 02IITUNING AUTOIIMODE STEREOIIZONE 02IIIR 1IIPOWER  |
| 02_10_00_11_1<br>02_10_00_11_5   | When in FM 100.05 MHz, Zone 2 XT1 outputs FM10005 in ASCII string When in FM 100.05 MHz, Zone 2 XT1 outputs a complete set of operating data IFM10005IIPRESET 02IITUNING AUTOIIMODE STEREOIIZONE 02IIIR 1IIPOWER ONI  |
| 02_10_00_11_1<br>02_10_00_11_5<br>2_10_00_11_2                               | When in FM 100.05 MHz, Zone 2 XT1 outputs FM10005 in ASCII string When in FM 100.05 MHz, Zone 2 XT1 outputs a complete set of operating data IFM10005IIPRESET 02IITUNING AUTOIIMODE STEREOIIZONE 02IIIR 1IIPOWER ONI Simply output "21" in ASCII if the current preset listening is 21  |
| 02_10_00_11_1 02_10_00_11_5  2_10_00_11_2 00_10_00_15_888_12                 | When in FM 100.05 MHz, Zone 2 XT1 outputs FM10005 in ASCII string When in FM 100.05 MHz, Zone 2 XT1 outputs a complete set of operating data IFM10005IIPRESET 02IITUNING AUTOIIMODE STEREOIIZONE 02IIIR 1IIPOWER ONI Simply output "21" in ASCII if the current preset listening is 21 Program XT1 Zone ID TO 12              |
| 02_10_00_11_1 02_10_00_11_5  2_10_00_11_2 00_10_00_15_888_12 00_10_00_15_222 | When in FM 100.05 MHZ, Zone 2 XT1 outputs FM10005 in ASCII string When in FM 100.05 MHZ, Zone 2 XT1 outputs a complete set of operating data IFM10005IIPRESET 02IITUNING AUTOIIMODE STEREOIIZONE 02IIIR 1IIPOWER ONI Simply output "21" in ASCII if the current preset listening is 21 Program XT1 Zone ID TO 12 Read Zone ID |

Notes for Programming: Each time after sending a command to operate a XT1, always pause for 0.5 sec then send command 11 to receive the update data feedbacks from the XT1.

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# Pin Layout



|     | RJ45 | DB9-Male | DB9-Female | Circuit Item |
|-----|------|----------|------------|--------------|
| Pin | 1    | 3        | 2          | TX           |
| Pin | 2    | 2        | 3          | RX           |
| Pin | 4    | 5        | 5          | GND          |

# Appendix 2

# Discrete IR HEX Codes

# The carrier frequency: 38KHz.

| Key     | HEX<br>Code | IR Code  |
|---------|-------------|--|
| AM/FM   | 90          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| On/Off  | 60          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| Mem     | 98          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| Auto    | F8          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| Dir     | D8          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| Up      | A8          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| Down    | 32          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| Pre-Set | B2          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |
| ST/MO   | 58          | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001 |

| 0 | 78                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015                |
|---|--|---|
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0015                                    |
|   |  | 0040 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0015 0015 0040 0015 0040 0015 0040 0015   |
| 1 | E8                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015                |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 |
|   |  | 0040 0015 0015 0015 0015 0015 0015 0015   |
|   | 40                                     | 0015 0015 0040 0015 0040 0015 0040 0015   |
| 2 | 48                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001            |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0015                                    |
|   |  | 0040 0015 0015 0015 0015 0015 0015 0015   |
| 3 | 68                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001            |
| 3 | 00                                     | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 |
|   |  | 0040 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0015 0015 0040 0015 0040 0015 0040 0015   |
| 4 | 02                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001            |
| 7 | 02                                     | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0015                                    |
|   |  | 0015 0015 0015 0015 0040 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0015 0015 0040 0015   |
| 5 | 12                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015                |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0015                                    |
|   |  | 0015 0015 0015 0015 0040 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0015 0015 0040 0015   |
| 6 | 20                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015                |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0015                                    |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
| _ |  | 0040 0015 0040 0015 0040 0015 0040 0015   |
| 7 | 40                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015                |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0015                                    |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
| 0 | 4.0                                    | 0040 0015 0040 0015 0040 0015 0040 0015   |
| 8 | A0                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001            |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 |
|   |  | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015   |
| 9 | A2                                     | 0000 006D 0000 0021 0156 00AB 0015 0015 0015 0015 0015 0015 0015 001            |
| 7 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 0015 0015 0015 0015 0015 0015 0015 0015   |
|   |  | 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015 0040 0015           |
|   |  | 0040 0015 0015 0015 0040 0013 0040 0015 0015 0015 0015 0015 0015 0015           |
|   |  | 0015 0015 0040 0015 0045 0045 0045 0045   |
| Ь | ı                                      | 0010 0010 0010 0010 0010 0010   |

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Version: B